

What Can You Do At Home?



Downspout extensions



Internal drain tile to sump pump / waterproofing to reduce seepage



Disconnect downspouts / discharge onto permeable surface / rain barrels



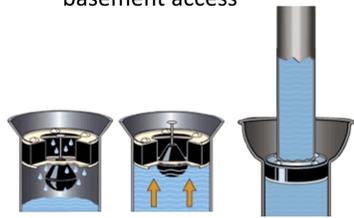
Permeable pavement (patios, walkways, driveways)



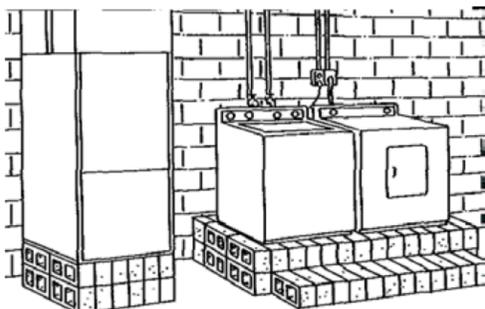
Rain gardens



Prevent water from getting into window wells or basement access



Floor drain float valve / standpipe



Elevate utilities in basement

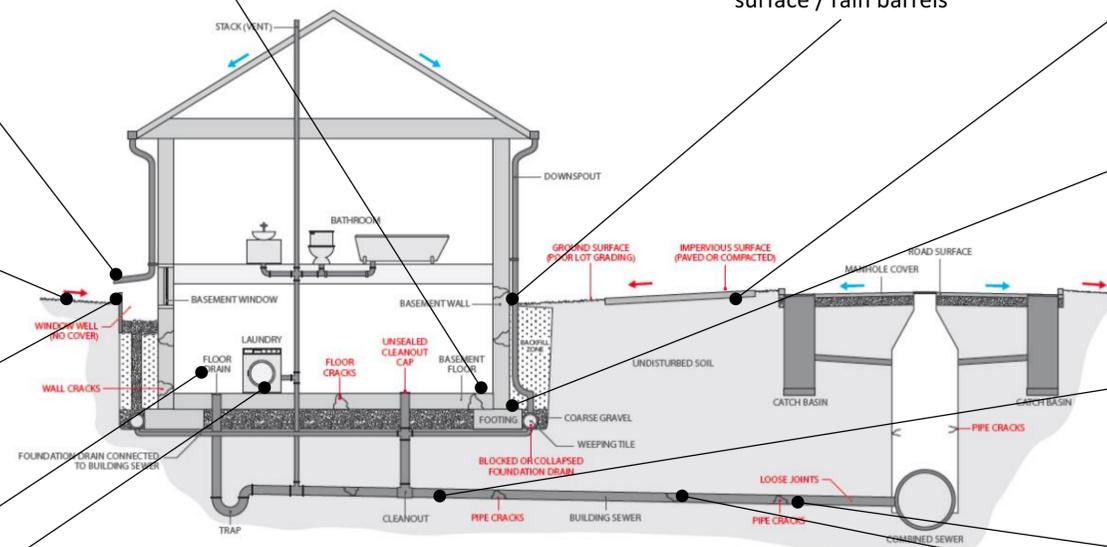


Figure 9.1: Types of urban flooding that can affect a residence. (Credit: Modified from Institute for Catastrophic Loss Reduction, 200)

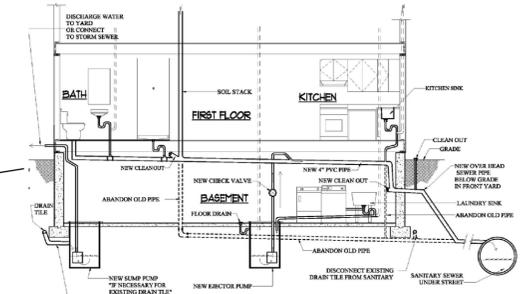
Table J.1: Summary of basement flood risk reduction options to address damages on site

Mitigation Options	Cause of Flooding			Damage reduction	Estimated Cost
	Overland	Infiltration	Sewer backup		
Structural Inspection					\$250-\$800 each
Raise utilities and other valuable items				X	
Insurance				X	Based on coverage
Gutter maintenance	o	X	o		
Downspout disconnection			X		
Site grading, downspout extension	o	X			
Rain gardens	o				\$3-40 per square foot
Permeable/porous pavement	X				\$2-\$10 per square foot
Exterior drain tile		X			\$185 per foot
Interior drain tile		X	X		\$40-50 per foot
Seal wall and floor cracks		X	o		\$300-\$600 each
Sump pump with check valve	X	X	X		\$400-\$1,000 each
Sewer backup valves			X		\$3,000-\$5,000
Overhead sewer installation			X		\$2,000-\$10,000

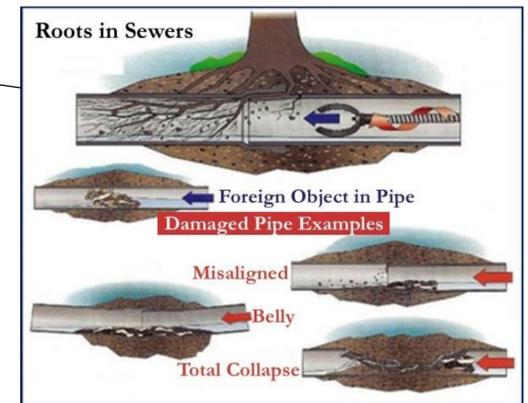
x - primary reduction
o - secondary reduction



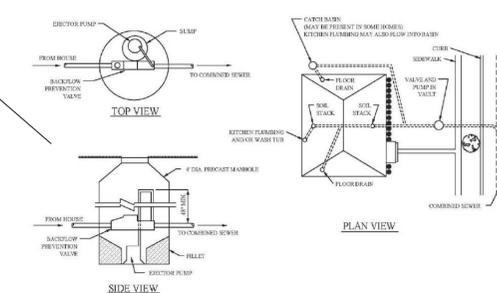
External drain tile to sump pump / waterproofing to reduce seepage



Overhead sewer installation



Clean / Rod / Repair Sewer Lateral Line



Install Flood Control System / Backflow Preventer

What Improvements Can Be Made in Your Neighborhood?

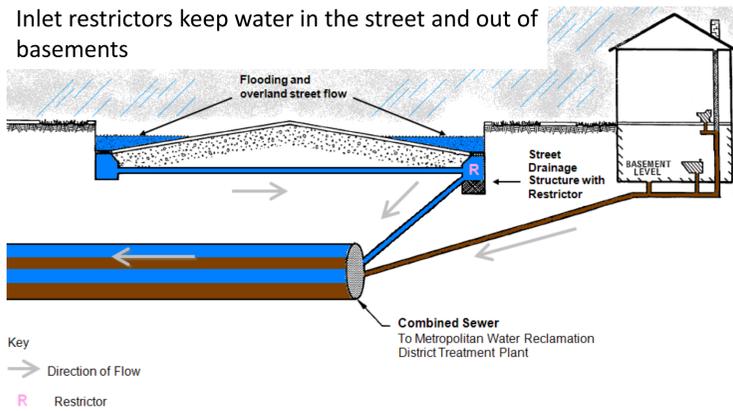


Rain garden or bioswale in parkway *Photo credit: Center for Neighborhood Technology (CNT)*

STREETSCAPE



Permeable pavers in parking lane (above) and street (below)



PARKING LOT



Rain gardens or bioswales capture runoff from the parking lot *Photo credit: CNT*



Landscape islands allow runoff to enter through cuts in the curb *Photo credit: CNT*

SCHOOLYARD



Photo credit: Space to Grow



Photo credit: Space to Grow

ATHLETIC FIELD



Photo credit: Space to Grow



GREEN ALLEY

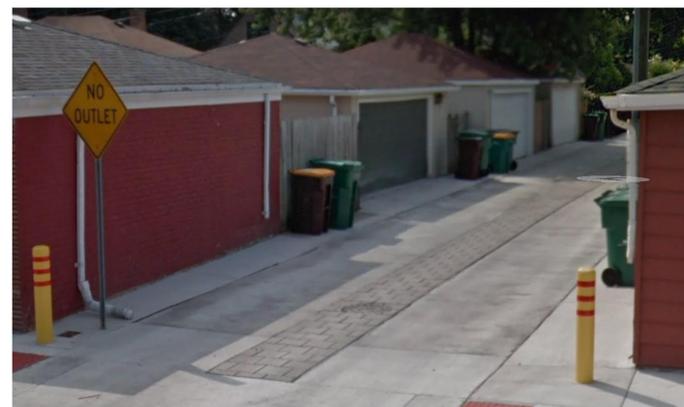


Photo credit: CNT